FARRITY

TOP SECRET

1969 JUN 9 15 31Z

T O P S E C R E T 091503Z JUN 69 CITE	6472		DUTLI	³ 25X1
	UH 12.			25 X 1
CORONA		7 .		
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SUBJECT: MISSION 1051, PHOTOGRAPHIC EVALUAT:	ON INTERIM REP	ORT	(PEIR)	
REF: A 2409 10 MAY 1969		'n	ETRIBUTION	***25 X 1
B. 2486 20 MAY 1969		CX	となることの大学の大学をはなっていることをはなっていることできないできない	PI
1. NUMERICAL SUMMARY		-Ť 1	FILE	
MISSION NO & DATES: 1051-1, 2-9 MAY 1969			CABLE SEC.	
1051-2, 9-18MAY 1969.			TPAR/RD	
LAUNCH DATE & TIME: 2 MAY 1969/Ø147Z			secue.	
VEHICLE NUMBER: 1649 CAMERA SYSTEM: J-44		72		
CAMERA SYSTEM: J-44		יביר	15 /APSO	
PAN CAMERA NUMBER MASTER S/N 212, FWD LOOK SLAVE S/N 213, AFT LOOK	(ING		PSG/00	
SLAVE S/N 213, AFT LOOK	NG -		RED	
C1LU 11FE:	-		REPRO	
MISSION 1051-1 S/I NO: D115/148/142			ATI	
MISSION 1051-2 S/I NO: D122/156/161			TEG	
RECOVERY REVS:			PROD	
1051-1 REV 113, 9 MAY 1969/0132Z			SCIEN	
1051-2 REV 256, 18 MAY 1969/0045Z			WEST	├─ ─ ∤ ∅
2. CAMERA SETTINGS:			EAST	
FWD LOOKING SLIT 0.140 FILTER WRATTEN W-2			M&S	
AFT LOOKING SLIT Ø. 140 FILTER WRATTEN W-2			PGM .	1
3. PERFORMANCE SUMMARY:				
MISSION 1051 EXHIBITS EXTREME IMAGE VARIA	ILITY WITH OVE	RALL	DIA TVA	
QUALITY OF THE FWD CAMERA BEING POORER THAN A	IN AVERAGE J-1	MISS	I-O-W-VV	 -
THE OVERALL IMAGE QUALITY OF THE AFT LOOKING	CAMERA IS SOME	WHAT	JEEU JEEU AD	
BETTER THAN THE FORWARD AND EXHIBITS EXAMPLES	OF IMAGERY CO	MPAR	Vibilities W.C.	25X1
TO AN AVERAGE J-1 MISSION. IN GENERAL, THE	MAGERY OF BOTH	PAN	C13437	_23 ^ I
CAMERAS IS SOFT AND LACKS CRISPNESS AND OVER	LL EDGE SHARPN	ESS.	CIVIX	1
THE PI COMMENT ON SUITABILITY FOR 1051-11				
POOR WITH THE MAJORITY IN THE FAIR TO POOR CA				،" ل ـــــــا
OF 1051-2 RANGES FROM GOOD TO POOR WITH THE	ADJURITY IN THE	PA1	ADMANCE CA	
CATEGORY. WEATHER IS CONSIDERED A MAJOR DEGI	ADING FACTOR,	HIND	SANTTIZED	
중 하 중요요즘 한국 원통, 전 독등 중심하는 요요요요 하는 것이 되었다. 그는 것이 나는 이 그 이 그는 것이 그 것이 그가 그 것이 되었다.		andreaming Manager	WITH TEXT	
4. ANOMALIES:	TMACEDY STUNE	ADDE		
A. ANOMALY: CONDITIONS OF GROSSLY SOFT				
IN APPROXIMATELY THE SAME FORMAT POSITION IN END. THIS SOFT IMAGERY IN THE FORWARD CAMER!				0.54
BINARY EDGE AND INCLUDED AN AREA OF APPROXIMA OF THE FORMAT. THE RECURRING AREA IN THE AFT	CAMEDA HAC TO	CATE	C WI	
NEAR THE TIMING TRACK SIDE AND AFFECTED APPRO	CHULLA WAD LU	CHIL	NT OF	
THE FORMAT. THERE WERE ALSO ISOLATED SOFT SI	NATURIELI IEN P	ヒハしじ	MI OF	
THROUGHOUT BOTH RECORDS.	OTO VHADORILI L	UUAI	EN	
CAUSE: FAILURE TO MAINTAIN FILM FLATNE:	S IN THE BOCK	er Konjekte u		
PLANE. NO SINGLE FACTOR HAS BEEN IDENTIFIED			AVII.	

ACTION:

1. REVIEW NECESSARY TO CONDUCT DYNAMIC TESTS ON U-46 TAKE-UP.

2. REVIEW RESULTS OF ALL J-46 TESTS. (MONITOR:

ALTHOUGH A RELATIONSHIP BETWEEN THE AFT CAMERA SOFT FOCUS IMAGERY AND THE TIMING MARKS WAS PREVIOUSLY REPORTED, NO SPECIFIC CORRELATION IS KNOWN.

REVIEW J-46 DATA TO ASSURE MAIN PLATE FLATNESS.

B. ANOMALY: THE FORWARD/TAKE-UP AND THE AFT/SUPPLY HORIZON CAMERAS DISPLAY A VEILED CONDITION DURING THE "A" MISSION. THIS



25X1

25X1

ANOMALY STARTED DURING PASS DØØ4 FOR THE FORWARD CAMERA AND ENDED DURING PASS DØ68. THE AFT CAMERA VEILING STARTED DURING PASS DØØ8 AND ENDED DURING PASS DØ38. THIS CONDITION DID NOT HINDER DATA REDUCT ION.

CAUSE: THIS PHENOMENON HAS BEEN OBSERVED ON PREVIOUS MISSIONS. INVESTIGATION THUS FAR HAS FILED TO ESTABLISH A DEFINITE CAUSE.

ACTION: NO ACTION IS RECOMMENDED.

C. ANOMALY: BOTH AFT CAMERA A/O. UNITS FAILED TO OPERATE.

FAILURE OCCURRED ON BOTH A.O. UNITS OF THE AFT LOOKING CAMERA DURING FRAMES 29 THROUGH 49 OF PASS DØØ7.

CAUSE: A REVIEW OF THE MATERIAL INDICATED THE PRESENCE OF A NORMAL DATA BLOCK ASSOCIATED WITH EACH OF THESE FRAMES. THIS ISOLATES THE PROBLEM AREA TO THE "ONE-HALF REV" SWITCH. PAST FLIGHT HISTORY HAS INDICATED SIMILAR SHORT TERM FAILURES ASSOCIATED WITH THIS SWITCH. IN ALL PROBABILITY A SMALL PARTICLE OF DIRT OR AN INCORRECT OVERTRAVEL ADJUSTMENT WAS THE CAUSE OF THIS ANOMALY.

ACTION: NONE.

- 5. CHARACTERISTIC ANOMALIES: THESE ARE PREDICTABLE, RECURRING ANOMALIES CONSIDERED INHERENT IN THE CORONA J-1 SYSTEMS. THESE PRODUCE MINOR DEGRADATION TO THE PHOTOGRAPHY. A SUMMARY OF THESE ANOMALIES IS PRESENTED BELOW. A CONTINUING EFFORT IS MADE TO MINIMIZE THESE ANOMALIES.
- A. FOG PATTERNS ON THE FIRST, FOURTH, THE FIFTH FROM LAST, NEXT TO LAST AND LAST FRAMES OF BOTH CAMERAS OF 1051-1 AND 1051-2 ARE VERY LIGHT IN DENSITY, AND DEGRADATION TO THE MATERIAL IS MINOR. THE FOG IS CAUSED BY MINOR LIGHT LEAKS.
- B. MINOR BANDING PERPENDICULAR TO THE MAJOR AXIS IS PRESENT AT THE TAKE-UP END OF SOME FRAMES IN BOTH INSTRUMENTS IN 1051-1 AND 1051-2. THE TAKE-UP END OF THE PANORAMIC FORMAT IS ALSO THE START OF PHOTOGRAPHIC SCAN. THEREFORE. VARIATIONS IN THE START-UP ACCELERATION OF THE SCAN ARM PRODUCE THIS BANDING PHENOMENON.
- MINOR RAIL SCRATCHES ARE PRESENT THROUGHOUT THE MISSION ON BOTH INSTRUMENTS. THESE SCRATCHES ARE OUTSIDE THE PHOTOGRAPHIC FORMAT.
- DENDRITIC FOG PATTERNS ARE PRESENT ALONG BOTH FILM EDGES INTERMITTENTLY ON THE AFT-LOOKING INSTRUMENT FOR 1051-2.
- E. EMULSION SCRATCHES CAUSED BY THE SCAN HEAD ROLLERS OCCUR TO AN AVERAGE EXTENT.

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6472 T O P S E C R E T BIASED MINUS DENSITY STREAKS APPROXIMATELY Ø. 1 F. INCH WIDE AND FOLLOWING THE TRAVEL OF THE FIELD FLATTENER AFFECTED BOTH CAMERA RECORDS. THE AFT RECORD WAS AFFECTED INTERMITTENTLY THROUGHOUT THE MISSION WHILE ONLY A FEW FORWARD RECORD FORMATS WERE AFFECTED AT THE END OF THE MISSION. THE CONDITION IS CHARACTERISTIC AND ATTRIBUTED TO FOREIGN PARTICLES ON THE FIELD FLATTENER.

G. NUMEROUS FINE MINUS DENSITY LINES PARALLEL TO THE MAJOR AXIS OF THE FILM ARE PRESENT INTERMITTENTLY THROUGHOUT

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THE MISSION AND ARE PROBABLY THE RESULT OF FOREIGN DEPOSITS ON THE FILTER.

- H. A SPURIOUS 200 PPS MARKER WAS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION IN THE TIME TRACK OF THE AFT CAMERA. THIS IS CONSIDERED THE RESULT OF A TRANSIENT GENERATED AT CENTER OF FORMAT OFF" POSITION.
- I. A MINUS DENSITY SPOT APPROXIMATELY Ø.1 INCH DIAMETER AS PRESENT ON THE AFT MATERIAL. THIS ANOMALY OCCURS EVERY THREE AND ONE-EIGHTH INCHES FROM FRAME 9 OF PASS AØØI THROUGH FRAME 20 OF PASS DØØ3. THIS SPOT APPEARS TO BE THE RESULT OF A FOREIGN PARTICLE ON A ROLLER.

END OF MESSAGE